

III. CLAIM AMENDMENTS

1. (Currently Amended) A mobile communication terminal comprising:

a wireless signal transceiver for receiving and transmitting wireless signals,

a pressure sensor for measuring atmospheric pressure,

a processing means-processor connected to the transceiver and pressure sensor
for-configured to determining-determine from the measured atmospheric pressure the altitude of the communication terminal, the processor is further configured to means-for determining-determine the horizontal position at the location of the mobile communication terminal; and means-for determining the ground level at said location using said determined horizontal position.

2. (Currently Amended) A mobile communication terminal according to claim 1, characterized by-comprising means-for calibrating-wherein the processing means processor is configured to be calibrated using the pressure measured at said location and the determined ground level at said location.

3. (Currently Amended) A mobile communication terminal according to claim 1, characterized in that said means-for-processor is configured to determining-determine the ground level using stored data correlating the horizontal position to a ground level.

4. (Original) A mobile communication terminal according to claim 3, characterized in that said data is stored in the mobile communication terminal.

5. (Original) A mobile communication terminal according to claim 3, characterized in that said data is stored at a service provider with which said mobile communication terminal can communicate.

6. (Currently Amended) A mobile communication terminal according to claim 3, characterized by ~~comprising means wherein the wireless signal transceiver is configured~~ to receive a wireless signal incorporating ground level data.

7. (Currently Amended) A mobile communication terminal according to claim 3, characterized in that said ~~means the processor is connected to for determining the horizontal position of the location of the mobile communication terminal comprises means a user interface configured~~ for enabling a user to enter said horizontal position as a longitude and latitude.

8. (Currently Amended) A mobile communication terminal according to claim 7, characterized by ~~comprising means wherein the user interface is further configured~~ for enabling a user to enter said horizontal position by indicating an area, a town, a street address, a postal code, or a landmark.

9. (Currently Amended) A mobile communication terminal according to claim 8, characterized by ~~comprising means wherein the user interface comprises a display~~ for displaying a map corresponding to an area around a rough horizontal position indication entered by the user, and ~~means enabling the user interface is further configured to enable~~ the user to indicate a more exact horizontal position on said map.

10. (Currently Amended) A mobile communication terminal according to claim 9, ~~characterized in that~~wherein the wireless signal transceiver of said mobile communication terminal is provided with means configured for receiving a wireless signal incorporating geographical data for displaying said map.

11. (Currently Amended) A mobile communication terminal according to claim 10, ~~characterized by comprising means wherein the wireless signal transceiver is further configured~~ for transmitting a wireless signal containing horizontal position data.

12. (Currently Amended) A mobile communication terminal according to claim 1, characterized in that said mobile communication terminal is a cellular phone, ~~comprising means wherein the processor is further configured~~ for determining ~~its~~the horizontal position through signals from base stations of the cellular network by using

-cell of origin (~~COO~~) and/or

-time of arrival (~~TOA~~) and/or

-time difference of arrival (~~TDOA~~) and/or

-enhanced observed time difference (~~E-OTD~~).

13. (Currently Amended) A mobile communication terminal according to claim 1, characterized in that said ~~means~~processor is configured to ~~for determining said horizontal position of the location of the mobile communication terminal uses use signals received from orbital satellites for determining said horizontal position of the location of the mobile communication terminal.~~

14. (Currently Amended) A mobile communication terminal according to claim 1, characterized in that said mobile communication terminal comprises ~~means a memory configured~~ to store a number of altitude levels determined by said ~~processing means the processor~~, and ~~means a display~~ for displaying a graphical histogram of the altitude development over time or relative to the traveled route.

15. (Currently Amended) A mobile communication terminal according to claim 1, characterized ~~in that~~ wherein the wireless signal transceiver of said mobile communication terminal ~~comprises means is configured~~ to receive an altitude profile.

16. (Currently Amended) Method of calibrating a barometric altimeter of a mobile communication terminal, comprising ~~the steps of:~~

- determining the horizontal position at the location of the mobile communication terminal,
- determining the ground level at said location using the determined horizontal position,
- measuring the atmospheric pressure at the location of the mobile communication terminal; and
- using the determined ground level to calibrate said barometric altimeter.

17. (Currently Amended) Method according to claim 16, further comprising ~~the step of~~ retrieving said ground level from stored data correlating ground levels to a horizontal position.

18. (Currently Amended) Method according to claim 16, further comprising ~~the step of~~ sending a wireless signal incorporating a request for receiving a ground level at a horizontal position.

19. (Currently Amended) Method according to claim 16, further comprising ~~the step of~~ sending a wireless signal incorporating a ground level to said mobile communication terminal.

20. (Currently Amended) Method according to claim 16, further comprising ~~the steps of~~:

- enabling the user to enter a horizontal position manually as an area, street address, postal code or landmark,
- comparing the manually entered horizontal position with said stored data,
- requesting the user to enter further detail regarding the horizontal position when the horizontal position is not sufficiently accurate for retrieving an altitude from said stored data,
- and providing the determined ground level when said manually entered horizontal position is sufficiently accurate for retrieving a ground level from said stored data.

21. (Currently Amended) Method according to claim 20, further comprising ~~the steps of~~ displaying on a display of said mobile communication terminal a map of the area in which the mobile is located, and allowing the user to enter a horizontal position by indicating a location on said map.

22. (Currently Amended) Method according to claim 20, further comprising ~~the step of~~ transmitting a wireless signal incorporating the manually entered horizontal position to a service provider.

23. (Currently Amended) Method according to claim 20, further comprising ~~the step of~~ transmitting a wireless signal incorporating a ground level altitude or incorporating an indication that the provided horizontal position is not sufficiently accurate to determine a ground level.

24. (Currently Amended) Method of determining the altitude of a mobile communication terminal, comprising ~~the steps of:~~

-establishing the horizontal position of the mobile communication terminal, and

-determining the ground level at said horizontal position, and

establishing the altitude of the mobile communication terminal according to the horizontal position and the ground level.

25. (Currently Amended) Method according to claim 24, further comprising ~~the step of~~ retrieving said ground level from stored data correlating ground levels to a horizontal positions.

26. (Currently Amended) Method according to claim 24, further comprising ~~the step of~~ sending a wireless signal incorporating a request for receiving a ground level at a horizontal position.

27. (Currently Amended) Method according to claim 24, further comprising ~~the step~~ of sending a wireless signal incorporating a ground level to said mobile communication terminal.

28. (Currently Amended) Method according to claim 24, further comprising ~~the steps~~ of:

- enabling the user to enter a horizontal position manually as an area, street address, postal code or landmark,

- comparing the manually entered horizontal position with said stored data,

- requesting the user to enter further detail regarding the horizontal position when the horizontal position is not sufficiently accurate for retrieving an altitude from said stored data,

- and providing the determined ground level when said manually entered horizontal position is sufficiently accurate for retrieving a ground level from said stored data.

29. (Currently Amended) Method according to claim 28, further comprising ~~the steps~~ of displaying on a display of said mobile communication terminal a map of the area in which the mobile is located, and allowing the user to enter a horizontal position by indicating a location on said map.

30. (Currently Amended) Method according to claim 28, further comprising ~~the step~~ of transmitting a wireless signal incorporating the manually entered horizontal position to a service provider.

31. (Previously Presented) Method according to claim 28, further comprising transmitting a wireless signal incorporating a ground level altitude or incorporating an indication that the provided horizontal position is not sufficiently accurate to determine a ground level.